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ABSTRACT

In a previous study, (ED 038 175) Mississippi children, who were a year younger (3 1/2 to 4 1/2) than Alabama children, had scored higher than the Alabama children on posttesting. This supplementary report gives the results of further investigation of this finding. Explanations may be: (1) the younger children began with higher IQ scores; (2) more than eight times as many children in Alabama live with families receiving welfare; and (3) more Alabama children have no adult male residing in the home. Supplemental data in tabular form include: standard deviations of pretest and posttest means, age means and standard deviations, time interval in weeks, previous Head Start experience, tester reliability, age range and analyses of correlation of IQ to family status. Whether these factors have played a part in the phenomenon studied is actually unknown. Further investigation is needed. (Author/AJ)

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**Curricular Intervention in Language Arts Readiness for
Head Start Children.**

**SUPPLEMENT
to the
ANNUAL REPORT TO THE
OFFICE OF ECONOMIC OPPORTUNITY
CONTRACT NUMBER 4123**

August 31, 1969

**Shuell H. Jones, Ed.D.
Tulane University**

PS 004434

Tulane University 1968-1969 Intervention Report

Supplementary Data

The fact that the Mississippi children who were a year younger (3½ to 4½) than the Alabama children had scored as high as the Alabama children stimulated further investigation.

One explanation for the younger children of an equal treatment-pair (Mississippi-Alabama) scoring higher on posttesting, is that they began with higher IQ scores.

Supplemental data include: standard deviations of pre-and post means, age means and standard deviations, time interval in weeks, previous Head Start experience, tester reliability, age range and analyses of correlation of IQ to family status, i.e., welfare and no male in household.

Findings:

None of the children in any of the thirteen classes had previous Head Start experience.

Our testers were trained and experienced and to our best knowledge none developed higher or lower scores systematically.

A graph, Table 8, of the actual number of children at the various age ranges supports the age means and standard deviations in the supplement Tables 1 through 6.

Table 7, shows 43 children in Alabama living with families receiving welfare, in comparison to five children in Mississippi. The table also shows 40 children in Alabama have no adult male residing in the household, compared to 14 children in Mississippi. Of the 31 children in Alabama

scoring below 80 on the IQ test, 12 of them were from families either living on welfare or having no adult male residing in the household, while 8 children in Mississippi scored below 80 on the same test and three of these children came from families residing on welfare or having no male in the household.

Whether these factors have played a part in the phenomenon of the younger Mississippi children scoring higher on tests administered than the older Alabama children is actually unknown and suggests a need for further investigation.

TABLE 1 SUPPLEMENT (See page 36)

Standard Deviations of Pre and Post Means, Age Means,
 Time Interval in Weeks on I T P A and STANFORD-BINET

ALABAMA

	I T P A					STANFORD-BINET		
	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7	
Post S.D.	39.93	26.56	28.43	20.90	29.56	23.32	42.48	
Pre S.D.	39.13	19.29	29.30	19.11	30.89	22.81	41.30	
Pre Age Mean	66.91	66.85	65.94	66.57	67.06	66.60	66.43	
Pre Age S.D.	2.19	2.60	2.04	1.65	1.98	2.35	2.25	
Post Age Mean	72.76	72.14	71.51	72.07	72.53	72.66	72.18	
Post Age S.D.	1.78	2.54	2.15	1.81	2.06	2.58	2.22	
Initial Time Interval	9	8.5	10	7	10	8	11	
Pre-Post Time Interval	27	30	28.5	29	28.5	29	27.5	
Post S.D.	15.40	9.74	8.78	8.86	8.94	11.74	17.59	
Pre S.D.	13.68	14.70	11.10	9.07	9.34	11.01	16.61	
Pre Age Mean	66.69	66.14	65.47	66.07	66.56	66.60	65.93	
Pre Age S.D.	1.84	2.54	2.18	1.81	2.39	2.61	2.20	
Post Age Mean	72.76	72.14	71.41	71.92	72.46	72.66	72.00	
Post Age S.D.	1.78	2.54	2.18	1.85	2.13	2.58	2.28	
Initial Time Interval	7	6.5	8	6	7	7	9	
Pre-Post Time Interval	29	32	30.5	30	30.5	30	29.5	

TABLE 2 SUPPLEMENT (See Page 37)

Standard Deviations of Pre and Post Means
on METROPOLITAN Subtests 1, 2, 3

		E 1			E 2			E 3			E 4			E 5			Control			Control		

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TABLE 2 SUPPLEMENT (See Page 38)
Standard Deviations of Pre and Post Means
on METROPOLITAN Subtests 4, 5, 6

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
4--Alphabet							
Post S.D.	5.22	1.87	4.86	4.08	5.00	5.34	5.27
Pre S.D.	3.71	3.53	2.42	2.81	2.23	4.59	1.64
5--Numbers							
Post S.D.	3.51	3.02	2.83	2.72	2.61	3.43	6.54
Pre S.D.	3.37	1.79	2.37	2.65	2.35	2.98	1.94
6--Copying							
Post S.D.	4.67	.75	2.57	1.58	2.41	2.78	2.70
Pre S.D.	2.21	.75	.94	.64	.79	2.64	1.33

TABLE 2 SUPPLEMENT (See page 40)

Standard Deviations of Pre and Post Means, Age Means,
 Time Interval in Weeks on METROPOLITAN Total Scores

ALABAMA

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
Post S.D.	17.57	14.14	11.46	9.51	12.58	9.75	32.79
Pre S.D.	10.89	11.41	9.29	10.38	7.61	17.84	13.06
Pre Age Mean	67.07	66.57	65.88	66.28	66.75	66.80	66.25
Pre Age S.D.	2.06	2.22	1.96	1.72	2.29	2.65	2.49
Post Age Mean	73.18	71.28	73.72	72.23	73.12	72.91	71.92
Post Age S.D.	1.94	5.43	4.17	1.73	2.09	2.84	3.66
Initial Time Interval	8.5	9.5	11	8	9.5	11	12
Pre-Post Time Interval	27.5	29	27.5	28	28.5	26	26.5

TABLE 3 SUPPLEMENT (See page 41)

Standard Deviations of Pre and Post Means
on GATES-MAGGINITIE Subtests 1, 2, 3

ALABAMA

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
1--Listening Comprehension							
Post S.D.	2.41	3.35	2.21	1.98	2.93	2.59	3.41
Pre S.D.	2.39	3.62	4.49	2.73	3.04	2.45	2.64
2--Auditory Discrimination							
Post S.D.	3.98	3.15	3.25	2.59	4.58	6.47	3.46
Pre S.D.	2.26	3.98	3.42	2.86	5.16	3.49	3.06
3--Visual Discrimination							
Post S.D.	3.74	1.49	5.95	4.09	5.22	6.43	6.00
Pre S.D.	2.12	2.13	2.59	2.64	1.63	3.82	2.08

TABLE 3: SUPPLEMENT (See page 42)

Standard Deviations of Pre and Post Means
on GATES-MACGINNIE Subtests 4, 5, 6

		E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
<i>4--Following Directions</i>								
Post S.D.	1.42	2.37	3.81	2.33	3.68	7.24	2.94	
Pre S.D.	2.50	2.96	3.52	3.20	2.77	2.68	2.99	
<i>5--Letter Recognition</i>								
Post S.D.	3.02	4.46	5.97	5.28	6.82	12.73	6.30	
Pre S.D.	2.28	1.79	1.37	1.66	.94	4.96	2.25	
<i>6--Visual-Motor Coordination</i>								
Post S.D.	2.83	1.82	4.15	3.59	4.07	4.24	3.90	
Pre S.D.	2.02	1.60	2.52	2.02	3.39	4.07	2.56	

TABLE 3 SUPPLEMENT (See page 44)

Standard Deviations of Pre and Post Means, Age Means,
Time Interval in Weeks on GATES-MACGINNITE Subtests 7 & 8 and TOTAL SCORES

ALABAMA

	E 1	E 2	E 3	E 4	E 5	Control 6	Control 7
7--Auditory Blending							
Post S.D.	1.92	2.99	2.02	2.56	2.80	9.74	3.58
Pre S.D.	1.74	2.37	2.21	1.94	1.75	1.98	1.83
8--Word Recognition							
Post S.D.	2.00	2.11	4.16	4.50	3.82	4.42	4.83
Pre S.D.	3.49	2.11	2.89	3.08	2.65	2.85	3.35
TOTAL SCORES							
Post S.D.	12.75	15.26	22.10	20.83	26.58	29.50	23.75
Pre S.D.	8.95	10.96	14.72	11.98	16.19	19.86	13.74
Pre Age Mean	67.00	66.71	66.00	65.57	66.75	66.28	66.33
Pre Age S.D.	2.00	2.49	2.09	1.65	2.01	2.61	2.25
Post Age Mean	69.81	68.57	65.53	68.30	73.06	69.00	68.80
Post Age S.D.	4.85	5.85	6.22	5.76	2.08	5.42	5.49
Initial Time Interval	9	10	12	8.5	10	13	11
Pre-Post Time Interval	27	28.5	26.5	27.5	28.5	25.5	26

TABLE 4 SUPPLEMENT (See page 46)

Standard Deviations of Pre and Post Means, Age Means,
Time Interval in Weeks on I T P A and STANFORD-BINET

MISSISSIPPI

I T P A

	E 1	E 2	E 3	E 4	E 5	Control 6
Post S.D.	41.03	29.46	42.16	23.11	31.29	41.07
Pre S.D.	37.93	41.45	39.03	42.24	34.28	35.25
Pre Age Mean	53.76	59.16	57.71	58.37	59.46	55.57
Pre Age S.D.	3.41	7.80	7.53	8.15	5.54	4.97
Post Age Mean	58.42	64.33	63.14	63.00	64.57	60.00
Post Age S.D.	2.56	7.86	8.26	8.43	5.15	4.86
Initial Time Interval	2.5	7.5	6	3	6	6
Pre-Post Time Interval	37.5	32.5	34	37	34	34

STANFORD-BINET

	E 1	E 2	E 3	E 4	E 5	Control 6
Post S. D.	10.45	7.25	9.46	11.40	9.92	15.83
Pre S.D.	15.22	*	8.67	8.14	9.67	15.75
Pre Age Mean	52.38	--	57.84	58.25	58.58	53.92
Pre Age S.D.	2.59	--	8.12	8.20	4.12	5.46
Post Age Mean	58.07	64.16	63.00	64.50	64.14	59.46
Post Age S.D.	2.55	7.64	8.24	6.98	5.00	4.77
Initial Time Interval	2	--	1	2.5	1	2
Pre-Post Time Interval	38	40	39	37.5	39	38

TABLE 5 SUPPLEMENT (See page 47)

Standard Deviations of Pre and Post Means
 on METROPOLITAN Subtests 1, 2, 3

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
1--Word Meaning						
Post S.D.	2.45	1.55	1.51	1.30	2.53	2.60
Pre S.D.	2.93	1.43	2.15	2.31	2.23	1.35
2--Listening						
Post S.D.	2.49	2.87	2.46	1.92	2.63	8.79
Pre S.D.	3.54	2.00	3.26	3.81	3.67	1.80
3--Matching						
Post S.D.	2.09	3.31	2.45	2.29	3.69	9.35
Pre S.D.	1.47	2.15	2.32	1.48	3.57	1.06

TABLE 5 SUPPLEMENT (See page 48)

Standard Deviations of Pre and Post Means
 on METROPOLITAN Subtests 4, 5, 6

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
4--Alphabet						
Post S.D.	4.03	5.05	5.78	5.09	5.63	6.24
Pre S.D.	1.49	2.45	2.10	4.45	3.33	1.55
5--Numbers						
Post S.D.	2.57	3.67	3.85	2.96	4.32	3.13
Pre S.D.	1.98	3.25	2.02	3.64	3.65	1.79
6--Copying						
Post S.D.	1.07	4.31	2.92	2.79	3.02	3.79
Pre S.D.	0	3.50	1.60	3.37	1.68	.83

TABLE 5 SUPPLEMENT (See page 50)

Standard Deviations of Pre and Post Means, Age Means,
 Time Interval in Weeks on METROPOLITAN Total Scores

	E 1	E 2	E 3	E 4	E 5	Control 6
MISSISSIPPI						
Post S.D.	10.39	15.10	16.22	10.23	19.15	10.86
Pre S.D.	8.30	10.13	11.18	14.57	15.16	5.58
Pre Age Mean	53.92	59.08	59.41	58.50	59.92	55.46
Pre Age S.D.	3.33	8.02	8.46	8.10	5.23	5.12
Post Age Mean	58.57	64.75	63.57	63.37	64.07	60.26
Post Age S.D.	2.34	7.81	8.24	8.29	6.56	4.83
Initial Time Interval	4	4	5	2.5	5.5	6
Pre-post Time Interval	36	36	35	37.5	34.5	34

TABLE 6 SUPPLEMENT (See page 51)
**Standard Deviations of Pre and Post Means
 on GATES-VACGINITIE Subtests 1, 2, 3**

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
1-Listening Comprehension						
Post S.D.	3.48	2.46	3.79	3.11	4.06	3.48
Pre S.D.	2.67	4.04	2.50	4.10	2.46	2.21
2--Auditory Discrimination						
Post S.D.	4.33	3.84	5.50	2.12	4.45	3.57
Pre S.D.	3.90	4.31	4.53	5.08	4.37	5.25
3--Visual Discrimination						
Post S.D.	3.72	4.18	4.76	4.17	5.64	4.05
Pre S.D.	1.33	3.52	2.26	3.37	4.12	.32

TABLE 6 SUPPLEMENT (See page 52)

Standard Deviations of Pre and Post Means
on GATES-MACGINNIE Subtests 4, 5, 6

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
4--Following Directions						
Post S.D.	2.52	2.41	3.47	2.53	2.97	3.79
Pre S.D.	2.53	2.80	2.42	2.35	3.60	2.70
5--Letter Recognition						
Post S.D.	6.59	5.01	6.22	5.33	6.10	5.91
Pre S.D.	1.80	2.54	2.37	4.94	3.22	1.16
6--Visual-Motor Coordination						
Post S.D.	3.20	4.96	4.97	4.22	4.86	2.44
Pre S.D.	1.23	2.28	2.20	4.40	2.70	5.52

TABLE 6 SUPPLEMENT (See page 54)

Standard Deviations of Pre and Post Means, Age Means,
 Time Interval in Weeks on GATES-MACGINNIE Subtests 7 & 8 and TOTAL SCORES

MISSISSIPPI

	E 1	E 2	E 3	E 4	E 5	Control 6
7--Auditory Blending						
Post S.D.	2.14	3.34	1.51	2.71	2.58	2.80
Pre S.D.	1.86	3.06	2.28	2.61	1.83	1.33
8--Word Recognition						
Post S.D.	3.02	4.23	3.56	2.06	5.48	2.85
Pre S.D.	2.98	2.87	2.12	3.83	3.42	3.67
TOTAL SCORES						
Post S.D.	24.50	25.08	26.61	19.37	30.97	21.57
Pre S.D.	13.36	19.71	15.68	26.16	20.36	18.43
Pre Age Mean	51.14	57.00	58.07	57.12	58.85	54.28
Pre Age S.D.	2.50	7.62	7.77	8.27	5.40	4.79
Post Age Mean	57.84	64.91	63.07	63.12	65.07	60.20
Post Age S.D.	2.51	7.76	9.34	8.35	5.21	4.88
Initial Time Interval	4.5	5	5.5	3	5	6
Pre-Post Time Interval	35.5	35	34.5	37	35	34

TABLE 7
Test of Correlation Between Low Test Scores of Samples
and Parents on Welfare
and No Male Adult in Household

<u>TREATMENT:</u>	<u>Total no. in Class:</u>	<u>Welfare:</u>	<u>IQ Below 80:</u>	<u>No Male:</u>	<u>IQ Below 80:</u>	<u>Total in Class--Post IQ Below 80:</u>
Miss. E1	14	3	--	3	--	2
Ala. E1	15	5	--	3	--	2
Miss. E2	12	2	--	3	--	--
Ala. E2	7	0	--	1	--	3
Miss. E3	14	0	--	1	--	2
Ala. E3	14	6	--	8	2	4
Miss. E4	8	0	--	0	--	--
Ala. E4	16	11	3	8	3	5
Miss. E5	15	0	--	4	2	3
Ala. E5	16	10	5	10	4	6
Miss. Cont.	15	0	--	3	1	1
Ala. Cont.	14	4	2	5	--	8
Ala. Cont. 2	14	7	2	5	2	3
TOTAL MISS.	78	5	0	14	3	8
TOTAL ALA.	96	43	12	40	11	31

TABLE 8
AGE RANGE BY TREATMENT
(all samples as of 10/1/69)

■ = ALABAMA
□ = MISSISSIPPI

TREATMENT:

